

ABBREVIATIONS			
AC	AIR CONDITION (-ING, -ED)	INV	INVERT
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AMP	AMPERE (AMP, AMPS)	LAT	LEAVING AIR TEMPERATURE
AP	ACCESS PANEL	LBS	POUNDS
BTU	BRITISH THERMAL UNIT	LWB	LEAVING WET BULB
CBV	CIRCUIT BALANCING VALVE	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	MA	MIXED AIR
CFM	CUBIC FEET PER MINUTE	MAX	MAXIMUM
CHW	CIRCULATING HOT WATER	MBH	THOUSAND BTU'S/HR
CHWR	CHILLED WATER RETURN	MIN	MINIMUM
CHWS	CHILLED WATER SUPPLY	MISC	MISCELLANEOUS
CLG	CEILING	NA	NOT APPLICABLE
CO	CLEANOUT	NC	NOISE CRITERIA
CR	CONDENSATE RETURN	NIC	NOT IN CONTRACT
CW	COLD WATER	NTS	NOT TO SCALE
DB	DECIBEL	OA	OUTSIDE AIR
DEMO	DEMOLITION	OBD	OPPOSED BLADE DAMPER
DIA	DIAMETER	ORD	OVERFLOW ROOF DRAIN
DIFF	DIFFUSER	PH	PHASE (ELECTRICAL)
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
DX	DIRECT EXPANSION	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RD	ROOF DRAIN
ELEC	ELECTRICAL	REC	RECESSED
ELEV	ELEVATION	REL	RELIEF
EMS	ENERGY MANAGEMENT SYSTEM	RH	RELATIVE HUMIDITY
ESP	EXTERNAL STATIC PRESSURE	RM	ROOM
EWB	ENTERING WET BULB	RFM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR
EXH	EXHAUST	SAN	SANITARY
EXIST	EXISTING	SD	SMOKE DAMPER
F	FAHRENHEIT	SF	SQUARE FEET
FSD	COMBINATION FIRE/SMOKE DAMPER	SP	STATIC PRESSURE
FDO	FLOOR CLEANOUT	SR	SPECIFICATION
FD	FIRE DAMPER	ST	STORM
FD	FLOOR DRAIN	STD	STANDARD
FDC	FIRE DEPARTMENT CONNECTION	TD	TEMPERATURE DIFFERENCE
FFE	FINISHED FLOOR ELEVATION	TSP	TOTAL STATIC PRESSURE
FLR	FLOOR	TYP	TYPICAL
FBM	FEET PER MINUTE	V	VOLTS
FT	FOOT OR FEET	VFD	VARIABLE FREQUENCY DRIVE
GA	GALLONS	VSD	VARIABLE SPEED DRIVE
GAL	GALLONS	VOL	VOLUME
GC	GENERAL CONTRACTOR	VTR	VENT THROUGH ROOF
GPH	GALLONS PER HOUR	W	WATTS
HP	HORSEPOWER	W/	WITH
HT	HEIGHT	W/O	WITHOUT
HVAC	HEATING, VENTILATING, AIR CONDITIONING	WC	WATER CLOSET
HW	HOT WATER	WCO	WALL CLEANOUT
HZ	HERTZ	WT	WEIGHT
ID	INSIDE DIAMETER		

EQUIPMENT TAGS			
ACCU	AIR COOLED CONDENSING UNIT	GWH	GAS WATER HEATER
AHU	AIR HANDLING UNIT	HU	HUMIDIFIER
AHUP	AIR HANDLING UNIT PUMP	HUH	HORIZONTAL UNIT HEATER
BP	BOOSTER PUMP	HWP	HEATING WATER PUMP
CDWP	CONDENSER WATER PUMP	IH	INTAKE HOOD
CEF	CEILING EXHAUST FAN	MAU	MAKE-UP AIR UNIT
CHWP	CHILLED WATER PUMP	PCWP	PRIMARY CHILLED WATER PUMP
CP	CIRCULATING PUMP	PHWP	PRIMARY HEATING WATER PUMP
CPR	CONDENSATE PUMP AND RECEIVER	PRV	POWER ROOF VENTILATOR
CRP	CONDENSATE RETURN PUMP	REF	RELIEF EXHAUST FAN
CUH	CABINET UNIT HEATER	RF	RETURN FAN
DHC	DUCT HEATING COIL	RH	RELIEF HOOD
ECH	ELECTRIC CABINET HEATER	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SCWP	SECONDARY CHILLED WATER PUMP
EHC	ELECTRIC HEATING COIL	SEP	SEWAGE EJECTOR PUMP
ES	ELECTRONIC SENSOR	SHWP	SECONDARY HEATING WATER PUMP
EUH	ELECTRIC UNIT HEATER	SP	SUMP PUMP
EWC	ELECTRIC WATER COOLER	TF	TRANSFER FAN
EWB	ELECTRIC WATER HEATER	USF	UTILITY SET FAN
FCU	FAN COIL UNIT	VAV	VARIABLE AIR VOLUME BOX
FPB	FAN POWERED VARIABLE AIR VOLUME BOX	VUH	VERTICAL UNIT HEATER
		WS	WATER SOFTENER

HVAC SYMBOL LEGEND	
DUCTWORK	
SUPPLY DUCT UP	
SUPPLY DUCT DOWN	
SUPPLY DUCT UP THROUGH ROOF	
RETURN/RELIEF DUCT UP	
RETURN/RELIEF DUCT DOWN	
RETURN/RELIEF DUCT UP THROUGH ROOF	
EXHAUST DUCT UP	
EXHAUST DUCT DOWN	
EXHAUST DUCT UP THROUGH ROOF	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	
REMOTELY ACCESSIBLE VOLUME DAMPER	
FIRE DAMPER W/ACCESS PANEL	
FIRE/SMOKE DAMPER W/ACCESS PANEL	
SMOKE DAMPER W/ACCESS PANEL	
DUCT RISE (OR DROP)	
EXISTING DUCTWORK TO REMAIN	
EXISTING DUCTWORK TO BE REMOVED	
SUPPLY AIR TERMINAL	
RETURN/EXHAUST/TRANSFER AIR TERMINAL	
VAV BOX	
ACCESS PANEL	
THERMOSTAT	
TEMPERATURE SENSOR	
SMOKE DETECTOR	
CO2 SENSOR	
LONG RADIUS ELBOW	
SHORT RADIUS ELBOW	
DIFFUSER THROUGH CEILING	
DIFFUSER THROUGH WALL	
DIFFUSER THROUGH FLOOR	
DIFFUSER THROUGH ROOF	

PLUMBING SYMBOL LEGEND	
FLOOR DRAIN	
FLOOR SINK W/HALF GRATE	
FLOOR SINK W/FULL GRATE	
BALL VALVE	
GATE VALVE	
CHECK VALVE	
DRAIN VALVE	
2-WAY VALVE	
SOLENOID VALVE	
MOTORIZED VALVE	
EMERGENCY GAS SHUT-OFF VALVE	
THERMOSTATIC/PRESSURE BALANCE MIXING VALVE	
TRAP PRIMING VALVE	
PRESSURE RELIEF VALVE	
BUTTERFLY VALVE	
GLOBE VALVE	
CIRCUIT BALANCING VALVE	
PLUG VALVE	
ANCHOR	
PIPE FLANGE	
PIPE GUIDE	
AIR CHAMBER	
WATER HAMMER ARRESTER	
WALL HYDRANT/HOSE BIBB	
EXPANSION TANK	
WATER METER	
FLOW METER	
THERMOMETER	
PRESSURE GAGE	
STRAINER	
PUMP	
PLUMBING FIXTURE TAG	
FLOOR RECEPTOR TAG	
FLOW SWITCH	
3-WAY VALVE	
BACKFLOW PREVENTER	
REDUCER	
FLOW ARROW	
STEAM TRAP (F&T)	
THERMOSTAT WELL	
EXPANSION JOINT	
FLEXIBLE CONNECTOR	
TEST PLUG	
STEAM TRAP (THERMOSTATIC)	
VACUUM RELIEF VALVE	
AQUASTAT	
PRESSURE REGULATOR	
PIPE DOWN	
PIPE UP	
PIPE DOWN	
PIPE UP	
PIPE CAP	
PIPE BREAK	
CONNECTION TO EXISTING	
KEY NOTE	

PLUMBING LINETYPE LEGEND	
	DOMESTIC COLD WATER
	DOMESTIC COLD WATER (BELOW FLOOR/GRADE)
	DOMESTIC COLD WATER (EXISTING)
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER (EXISTING)
	GAS
	GAS (ON ROOF)
	GAS (EXISTING)
	GAS (EXISTING ON ROOF)
	SANITARY SEWER (ABOVE FLOOR/GRADE)
	SANITARY SEWER (BELOW FLOOR/GRADE)
	SANITARY SEWER (EXISTING)
	VENT
	VENT (UNDERFLOOR/GRADE)
	VENT (EXISTING)

HVAC PIPING LINETYPE LEGEND	
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY (EXISTING)
	CHILLED WATER SUPPLY (EXISTING)
	CONDENSATE DRAIN
	CONDENSATE DRAIN (EXISTING)
	HOT WATER RETURN
	HOT WATER RETURN (EXISTING)
	HOT WATER REVERSE RETURN
	HOT WATER REVERSE RETURN (EXISTING)
	HOT WATER SUPPLY
	HOT WATER SUPPLY (EXISTING)
	REFRIGERANT LIQUID
	REFRIGERANT LIQUID (EXISTING)
	REFRIGERANT SUCTION
	REFRIGERANT SUCTION (EXISTING)

MISC. SYMBOL LEGEND	
	EQUIPMENT TAG
	REVISION TRIANGLE
	CONNECTION TO EXISTING
	KEY NOTE

SHEET INDEX	
M001	MECHANICAL TITLE SHEET
M101	MECHANICAL PLAN
M201	MECHANICAL DETAILS AND SCHEDULES
M901	MECHANICAL SPECIFICATIONS
P101	PLUMBING ENLARGED PLAN, DETAILS, AND SCHEDULES

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